APRIL 1947 SO CENTS PER COPY

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IN THIS ISSUE

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First engineering story illustrates many ingenious features of world's only flying-wing superbomber.

TEST INSTRUMENTS FOR ROCKET ENGINES What's needed to check per-

formance of increosingly important type of power plants.

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method designed to "up" employee production in peacetime operation.

ARGENTINA -PRIME EXPORT MARKET

Exhaustive survey shows how U.S. producers can reach ready-and-willing customers.

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AVIATION, AND 1947



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ATLACION, April, 1947

36 TRUARC rings reduce weight, eliminate parts in complex radar aircraft antenna!

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AVIATION, April 1941

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THE AVIATION NEWS

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Design Details

of the Northrop XB-35

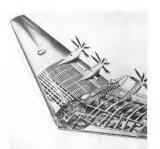
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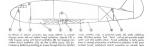
BY JOHN H. CANTUN.

GAA requires passenger nititier begging and cargo compartments to be fitted with season warning apparatus. Described here are speedy, highly occurate, and lightweight devices especially developed for alvcraft lash/traftics.

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LATEON, tent 1817



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AVIATION, April 1940

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Gaging Rocket-Engine Forces and Flows

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By GEORGE P. SUFFON Associate Saleston State Associate Associate Str.

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Improved Static Testina Helped Prove DC-6

By WARREN W. BRADLEY, Street Fest Engineer, Drophy Alexant Co.

Revealing how Devotes engineers tech on eff-the-line sensels of company's newest eirliner and successfully applied new strength needen eartheds-vielding vital date with Ettle interruption in production of the croft.

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Radio "Fix" Device Enables Pinpoint Avigation

By FRANCIS C. EYENES

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High Altitude Oxygen Boost For Aircraft Engines

By FRANCIS MASS, Accommiss' Septimes News As Metalaid Caster, ERNEST F. FIOCE, Reports, Retired Server of Stanfords and ROBSET A. GROSSELF-IMDEE, Prince Engineer, In Land Stanfor Testins Co.

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AVEAUION, April, 1907

AIR CONDITIONING TURBINE-PROPELLED AIRCRAFT

By H. J. WOOD, Andred Engagest Atlantach Mily Co.

Concluding an important series showing great most for class seep eration between airframe, power plant and equipment designers in creation cables which will make possible speeds over \$40 mp

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Fig. 8. Eggent sig. nit rated dealergy from

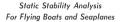
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turbines. The smollest, lawing a flow





By PENEST G. STOUT, Clint of News Already Brownel, Completed Pallow Annual Com-

to this fiest article of this velocitie series, Researcher Stout devel-

The structure we consider content of the first dreft will be received to determine R the complety Class VP types had shown in Fig. 11 and Table



Fig. 12 Diese are 30, 10; and 7-15, per mer debbes ands

AVEATION, AND 1967



AVIATION, April 1947



Tokks 18--Pleas Brack-like Manhacement Table IV-Righting and Specting Memoria

Total agenting mounted for this con

Table TI-OF-Seater Condition (b)

Table 110-Of-Coater Condition (a)

Fig. 16. Determination of chale graph of Best for off motor familing conditions

PRACTICAL ENGINEERING OF ROTARY WING AIRCRAFT

PART IS

By HARRIS S. CAMPBELL. Complete to Astrona Company of Amelica Boolsains his contribution to this comprehensive series. Engineer Compheli discusses basic conditions underlying rater bub design

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A. Walt Confiden

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AVIATION, April 1987

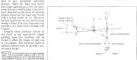
Fig. 1: Representation of reading and ing augino

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Surface Discharge Plug Featured In Low Tension Ignition Research

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AVIATION'S ENGINEERING DATA BOOK

SHEET NUMBER CLASSIFICATION

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-100	-12	-25	-54	50	06	-164	-007	-112	-115	-122
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Control Selection has Corp. Metric & Allien Selection, by S. B. Hard

OUR TEACHERS-

They Need The Help Of Business Now

FWTSHIS is an arread to raise school trackers sale. artes-fast. Buch appeals are commonly edthe economists. This one is not. It is addressed directly to the business conceanity, and to its hard

As a whole, the school teachers of the nation are taking an economic beating. Bo, too, are their close chastru nower, public school teachers salaries, after taxes, average about 20 percent less than they did eight years are. Berirefor salaries of liberriess. always low, have fallen behind an equal account in beavy on those in the lower renks. As a group, teachers and librarians are slose to the bestum of the

L. The more competent teachers will continue

les will remain inadequately staffed. More than able owner have left the walder arhead teachter than 155,500 of the replacements are "substandard." They exceed meet the minkeson by admission of the profession healf, are none

2 Those who remain will be presented inunionarm aroung teachers at present clearly the papert to the strike weapon by some touchers to enforce their salary demands that their averpathy

for the reneral alight of our teachers tends to be dalled. Such an attitude is understandable. It avails ention caused larrely by teachers salary troubles. The cruis in education is a cruss for the nation as

a whole. The work of our schools, colleges and Ebruries in such that its deterioration masses deteriness community. Thet community has a special stake

Education and Unionism There may be room for dimensioned as to whether

teachers should organize the unelves in trade unions. eness would be a body blow to business. Among by toking a lead in relevant the teachers solary

In our work of publishing technical periodicals to know many teachers and Beurassa We know that, as a group, they have little appetite for pur-They are far more interested in making a militari neglect of their economic needs by the business Henrism can be expected to have an shidler re-

SUB CLASSIFICATION

contracts toward the institution of business. That recentrarest will in turn, be communicated in no small resumes to the environ percention. Such is

The ermis in education is not, of course, excluconditions also play a part. Many achools are dilanbearies. Some creall-town solved heards opposing trust that the achool teachers by the pursoons of selves. Presention of a recover degree of academic freedom is sometimes missing. The teacher is rarely accorded a reputate communities to the experience of tolerable saluries

Because of the enemests devenity of local conpeneral rule for emergency setion would fit all tures on education in 1993 varied all the way from shopt \$30 per papil to shout \$150, Some states, like from local taxes. Others, blue Debousee, rely almost Others have not, Variations each as these limit may

But as a general proposition it can be safely said

foculties and lebrury staffs have not been inabreast of the increase of about 50 percent in the cost of Safer stree 1999. In yanta cases a terrestree to handle the problem.

Thus respectives let it be removed in not offered as a solution of the salary resoluter, but as a start. With their salarses increased enough to meet the the current concern postton of industrial workers, Since 1939, the assertion of wealths engages of before trial workers after taxes, has enteringed the non

would be made toward string America the nort of world. We warry, and I think rightly, about haven the free world provided by Readen Commerces According to the best fleures available, the U.S.S.R. is spending about twice as large a share of its total natural externs for education as we see. The figures compared include our expenditures for both public and private education. That comparison is really

States Should Take Lord

In dealing with the solver errors it is up to the teachers to display a reaturity and integrity worthy ment advantages, such as long vacations. They of their ground incomes. Also expeloyment in teachparing their position with those whose combinment At the same time, the great fixed difficulties in-

pouled affective notion. The states are better entired fregrislly and otherwise to take such localities depotly involved, should take the lead. If for accommention already too beauty handward that refee reset he rold. The exists research a manual irrespeable dayage to the nation as a whole, and a intelligent self-interest of business requires that it. In education,

President McGrato-Hill Publishing Company, Inc.



Shown above in bovering flight is the new forarto simpless Model I Bendy, "Whisteway" Helicoper, which is considering final flight term. Two believesters of this model have already been test-flown and others are in the advance strates of construction. Production for a great variety of uses will be initiated in the

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AVEATION, April, 1941





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AVEATION, April, 1947.



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AVIATION'S MAINTENANCE NOTEBOOK

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By FRANK ERINE

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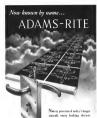
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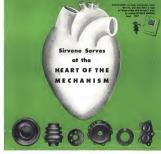
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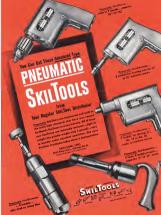
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